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MILK LABORATORIES APPROVED BY FEDERAL AND STATE AGENCIES; IN ACCORDANCE WITH THE PUBLIC HEALTH SERVICE GRATE A PASTEURIZED MILK ORDINANCE AND EVALUATION OF MILK LABORATORIES

National Center for Urban and Industrial Health
Cincinnati, Ohio

1967

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MILK LABORATORIES APPROVED BY FEDERAL AND STATE AGENCIES

In Accordance with the Public Health Service Grade "A" Pasteurized Milk Ordinance and Evaluation of Milk Laboratories

1967 EDITION

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Springfield VA 22151

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Bureau of Disease Prevention and Environmental Control
National Center for Urban and Industrial Health
Cincinnati, Ohio
1967

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1967 Edition

PREFACE

The Grade "A" Pasteurized Milk Ordinance (1965 Recommendations of the United States Public Health Service) requires that "Samples shall be analyzed at an official or appropriate officially designated laboratory." These are defined in Section-1 therein on "Definitions," as follows:

***AA. Official Laboratory.**—An official laboratory is a biological, chemical, or physical laboratory which is under the direct supervision of the State or a local health authority.*

***BB. Officially Designated Laboratory.**—An officially designated laboratory is a commercial laboratory authorized to do official work by the supervising agency, or a milk industry laboratory officially designated by the supervising agency for the examination of producer samples of Grade A raw milk for pasteurization.*

Section 6 of the Grade "A" Pasteurized Milk Ordinance on "The Examination of Milk Products" stipulates that the sampling procedures and required laboratory examinations "shall be evaluated in accordance with the methods of evaluating milk laboratories recommended by the United States Public Health Service" (PHS Publication No. 999-FP-3).

The state central milk laboratories listed in Table 1 have been certified by milk laboratory survey officials of the Public Health Service. The official, commercial, and dairy industry laboratories identified in Table 4 have been approved by a milk laboratory survey official of their state as being in substantial compliance with standard methods as evidenced by a survey at least biennially and acceptable analysis of split samples of milk sent by the state to each laboratory every 6 months.

Present plans are to revise this publication annually. In the interval between editions, users may consult with state milk laboratory survey officers identified in Table 2 for information concerning any additions or deletions.

Acknowledgments. In the development of Table 4, which lists all state-approved milk laboratories, draft material was prepared and distributed for review by the state health or agriculture department laboratory directors or milk laboratory survey officer of each state. Their cooperation in helping update this list of approved laboratories and information concerning the number of men and women analysts in each approved official, commercial, or industry laboratory is greatly appreciated. The graphic and tabular summaries in Figure 5 and Table 3 were prepared from the data supplied by state officials.

LUTHER A. BLACK, Ph.D.
Chief, Milk Sanitation Research

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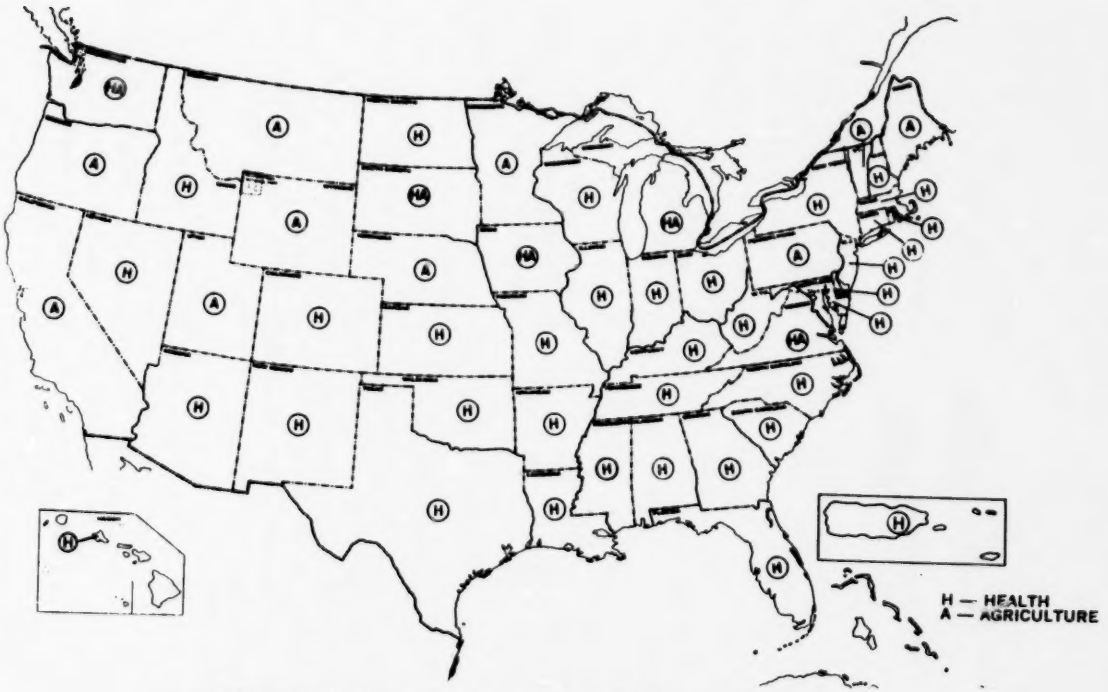
MILK LABORATORIES APPROVED BY FEDERAL AND STATE AGENCIES

DEVELOPMENT OF MILK LABORATORY CERTIFICATION

The activities of the Public Health Service in milk laboratory certification began in 1941 when surveys of milk laboratories were initiated in defense areas in the 48 contiguous states. In cooperation with state health or agriculture departments, Bacteriologist L. A. Black of the Public Health Service visited laboratories doing official analyses and observed equipment, preparation of materials, techniques and results of analyses, and records. Correct procedures were demonstrated and a blank copy of the survey form (based upon the 7th edition of *Standard Methods for the Examination of Dairy Products*) was left with each laboratory as a guide to these procedures. In subsequent years the PHS milk laboratory survey forms have been revised after each successive edition of Standard Methods.

State central health or agriculture milk laboratories have been resurveyed every 2 or 3 years, and (as shown in Figure 1) currently the central laboratories of 49 states, D. C., and Puerto Rico, are certified by the Public Health Service. Table 1 lists alphabetically by states the departments responsible and the cities in which the central laboratories are located. This table also lists the number of men and women analysts approved for bacteriological work in these laboratories. Since in some laboratories with separate chemical laboratories chemists make phosphatase tests only, these were tabulated separately.

At the time of the first nationwide survey of milk laboratories, only two states (Connecticut and New York) were actively engaged in a program of approval of all local laboratories officially engaged in bacteriological analysis of milk. By the time of the first national conference on interstate milk shipment in 1950, 12 states had programs for approval of local milk laboratories. Figure 2 shows the increase in the number of states undertaking such programs so that by the end of 1963 all 48 contiguous states (and D. C.) had programs for approval of milk laboratories.



INCLUDES EVALUATION BY SPLIT MILK SAMPLES SENT ANNUALLY
BY NATIONAL CENTER FOR URBAN AND INDUSTRIAL HEALTH TO ALL STATES.

Figure 1 — State central health or agriculture milk laboratories periodically surveyed and certified by the Public Health Service.

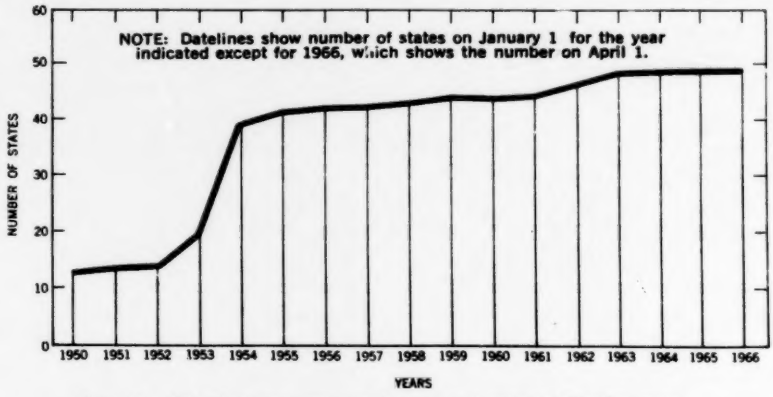

NOTE: Datelines show number of states on January 1 for the year indicated except for 1966, which shows the number on April 1.
NUMBER OF STATES
0
10
20
30
40
50
60
1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966
YEARS

Figure 2 — Growth of state programs for approval of local milk laboratories.

The recommendations of the first national conference on interstate milk shipment pertaining to "laboratory" provided that states may accept results from local official laboratories they approve as complying substantially with Standard Methods and whose results on split samples sent by the state at least twice yearly closely agree with those obtained by the state central laboratory. Figure 3 shows the growth of state programs for evaluating local laboratories by means of split samples. The number of states checking local laboratories by means of split samples increased from 2 in 1953, to 46 (and D. C.) by July 1, 1964, and to 48 by March 1, 1965. In Figure 4 the use of state-approved local laboratories in analysis of milk for interstate shipment has been charted from 1956 to 1964.

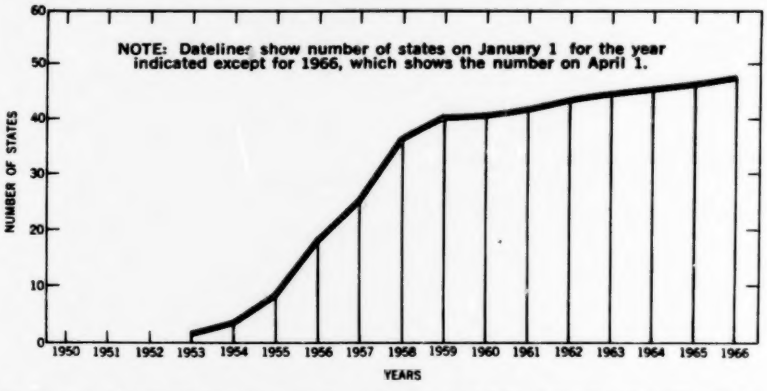

NOTE: Dateliner show number of states on January 1 for the year indicated except for 1966, which shows the number on April 1.
NUMBER OF STATES
0
10
20
30
40
50
60
1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966
YEARS

Figure 3 — Growth of state programs for evaluating local laboratories by split milk samples.

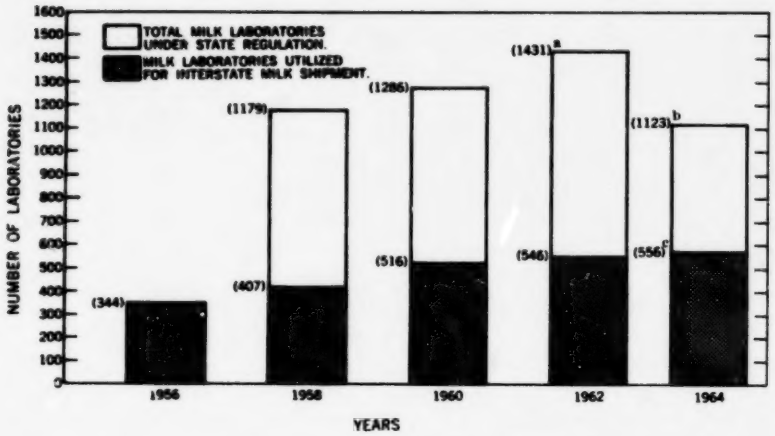
TABLE 1. CENTRAL MILK LABORATORIES OF STATES

State	Department	City	PERSONNEL		
			Total	Men	Women
Alabama	Public Health	Montgomery	2	..	2
Arizona	Health	Phoenix	2	1	1
Arkansas	Health	Little Rock	1	1	..
California	Agriculture	Sacramento	3	2+1	..
Colorado	Public Health	Denver	2	1	1
Connecticut	Health	Hartford	6	5+[1]	..
Delaware	Board of Health	Dover	3	..	3
Florida	Board of Health	Jacksonville	3	1	2
Georgia	Public Health	Atlanta	4	1	3
Hawaii	Health	Honolulu	2	2	..
Idaho	Health	Boise	2	1	1
Illinois	Public Health	Chicago	6	4	2
Indiana	Board of Health	Indianapolis	6	3	3
Iowa	Agriculture	Des Moines	4	2	2
Kansas	Health	Topeka	3	3	..
Kentucky	Health	Frankfort	4	2	2
Louisiana	Board of Health	New Orleans	5	3	2
Maine	Agricultural Experiment Station	Orono	2	2	..
Maryland	Health	Baltimore	6	2+1	3
Massachusetts	Public Health	Boston	2	2	..
Michigan	Health	Lansing	3	3	..
Michigan	Agriculture	East Lansing	3	1	2
Minnesota	Agriculture	St. Paul	8	5+2	1
Mississippi	Board of Health	Jackson	2	1	1
Missouri	Public Health and Welfare	Jefferson City	4	3	1
Montana	Livestock Sanitary Board	Bozeman	2	1	1
Nebraska	Agriculture and Economic Development	Lincoln	2	2	..

TABLE 1 (Continued) CENTRAL MILK LABORATORIES OF STATES

State	Department	City	PERSONNEL		
			Total	Men	Women
Nevada	Health	Reno	2	1+1	..
New Hampshire	Health and Welfare	Concord	1	..	1
New Jersey	Health	Trenton	4	1	2+1
New Mexico	Public Health	Albuquerque	2	1	1
New York	Health	Albany	3	1	2
North Carolina	Board of Health	Raleigh	2	2	..
North Dakota	Health	Bismarck	3	1+1	1
Ohio	Health	Columbus	2	..	2
Oklahoma	Health	Oklahoma City	2	2	..
Oregon	Agriculture	Salem	3	3	..
Pennsylvania	Agriculture	Harrisburg	3	2	1
Rhode Island	Health	Providence	3	1	2
South Carolina	Board of Health	Columbia	6	2	4
South Dakota	Health	Pierre	1	..	1
South Dakota	Chemical Laboratory	Vermillion	1	1	..
Tennessee	Public Health	Nashville	5	2	3
Texas	Health	Austin	5	2+2	1
Utah	Agriculture	Salt Lake City	1	1	..
Vermont	Agriculture	Montpelier	4	2	2
Virginia	Health	Richmond	5	2	3
Virginia	Agriculture	Richmond	3	2	1
Washington	Health	Seattle	2	1	1
Washington	Agriculture	Olympia	5	4	1
West Virginia	Health	South Charleston	4	1	3
Wisconsin	Board of Health	Madison	2	1	1
Wyoming	Agriculture	Laramie	3	2	1
D. C.	Public Health	Washington	3	1+1	1
Puerto Rico	Health	San Juan	3	..	3
Total			175	93+10	71+1

+ Limited to phosphatase test only.



a Included 123 commercial or dairy industry laboratories approved for plate and coliform counts and 170 approved for direct microscopic counts by Department of Agriculture of one state. In 1964 this state discontinued practice of licensing only persons affiliated with laboratory since by law Commissioner was authorized to license persons, but not laboratories;

b Includes 54 dairy industry laboratories approved by two states for methylene blue reduction tests only;

c Includes 24 dairy industry laboratories approved by one state for methylene blue reduction tests only.

Figure 4 — Use of state-approved local laboratories in analysis of milk for interstate shipment.

The Public Health Service conducted its first split milk sample evaluation of state central milk laboratories in 1957-1958.[1] Since 1961 state central laboratories (and the District of Columbia) have received annually an identical set of the same split samples. Their results have been submitted, evaluated statistically,[2] and reports returned. This split sample program has resulted in a high degree of accuracy and uniformity in milk analysis nationally.

The procedures governing the cooperative state-PHS program for certification of interstate milk shippers provide that: "1. The Public Health Service shall evaluate and approve the laboratory facilities and procedures of State laboratory approval agencies. 2. The Public Health Service shall periodically check survey the milk laboratories of participating states to assure compliance with *Standard Methods for the Examination of Dairy Products.*"

[1] Statistical analysis of standard plate counts of milk samples split with state laboratories. C. B. Donnelly, E. K. Harris, L. A. Black, and K. H. Lewis. J. Milk and Food Technol. *21*:315-319. 1960

[2] Evaluation of state central milk laboratories by statistical analyses of standard plate counts. C. B. Donnelly, J. T. Peeler, and L. A. Black. J. Milk and Food Technol. *29*:19-24. January 1966.

Table 2 lists milk laboratory survey officers designated by 49 states, D. C., and Puerto Rico. Most of these survey officers have complied with criteria for issuance of a PHS certificate as a state milk laboratory survey officer. Criteria for PHS certification are listed below.

Criteria for PHS Certification as a State Milk Laboratory Survey Officer

1. Milk laboratory with which individual is affiliated is approved as to facilities, equipment, and procedures by PHS Milk Sanitation laboratory personnel or their designated representatives.
2. Individual has demonstrated acceptable competence in interpreting milk laboratory methods as specified in *Standard Methods*, the *Milk Ordinance and Code*, or other test procedures recommended by the Public Health Service, for example by satisfactory completion of a SEC milk laboratory training course or performance in the laboratory.
3. Individual has demonstrated proficiency in evaluation of local milk laboratories during joint surveys or visits accompanied by PHS Milk Sanitation laboratory personnel or their designated representatives.
4. Individual is actively engaged in surveys as demonstrated by satisfactory completion of one or more sets of milk laboratory survey forms within the last two years that are on record at the PHS Milk Sanitation laboratory.
5. Individual is actively promoting uniformity of local laboratory analyses as demonstratted by acceptable results of split milk samples examined within the past year that are on record at the PHS Milk Sanitation laboratory.

TABLE 2.
STATE-DESIGNATED MILK LABORATORY SURVEY OFFICERS
December 31, 1966

State	City	Department	Individual
Alabama	Montgomery	Public Health	Randall E. Glenn*
Arizona	Phoenix	Health	H. Gilbert Crecelius*
Arkansas	Little Rock	Health	Rayburn Allen*
California	Sacramento	Agriculture	Calvin L. Stucker
California	Sacramento	Agriculture	P. J. Dolan*
California	San Francisco	Agriculture	M. A. Cairns*
Colorado	Denver	Public Health	David McGuire*
Colorado	Denver	Public Health	Paul Maifarth
Connecticut	Hartford	Health	Elizabeth Murphy*
Connecticut	Hartford	Health	Earl R. Thompson*
Delaware	Dover	Board of Health	Irene Mazeika*
Florida	Jacksonville	Board of Health	Hugh F. Butner*
Florida	Jacksonville	Board of Health	John Taylor, Jr.*
Georgia	Atlanta	Public Health	William C. Henning*
Georgia	Waycross	Public Health	George T. Knowles, Jr.*
Hawaii	Honolulu	Health	Lewis M. Nutting
Idaho	Boise	Health	Owen L. Carpenter*
Illinois	Chicago	Public Health	Joseph C. McCaffrey*
Illinois	Springfield	Public Health	Berry E. Gay, Jr.*
Indiana	Indianapolis	Board of Health	M. S. Campbell*
Iowa	Des Moines	Agriculture	Gene W. Ronald*
Iowa	Des Moines	Agriculture	Homer K. Hansen*
Kansas	Topeka	Health	Richard W. Ripper*
Kentucky	Frankfort	Health	Henry S. McGuire*
Kentucky	Frankfort	Health	Emma Miller*
Louisiana	New Orleans	Board of Health	Ralph T. Fray*
Louisiana	Shreveport	Board of Health	William J. Noble*
Maine	Orono	Agriculture	Gordon E. Ramsdell*[3]
Maryland	Baltimore	Health	Arnold C. Salinger*
Massachusetts	Boston	Public Health	George T. O'Brien
Michigan	Lansing	Health	Orla E. McGuire*
Minnesota	Minneapolis	Health	Russell E. Frazier*
Minnesota	St. Paul	Agriculture	Donald J. Pusch*
Minnesota	St. Paul	Agriculture	Richard Schifsky
Mississippi	Jackson	Board of Health	R. H. Andrews*
Missouri	Jefferson City	Public Health	Leonard B. Garrett*
Montana	Bozeman	Livestock Sanitary Board	Beckwith Hubbell, Jr.

TABLE 9 (Continued) MILK LABORATORY SURVEY OFFICERS

State	City	Department	Individual
Nebraska	Lincoln	Agriculture	Cecil A. Metzger*
Nebraska	Lincoln	Agriculture	Robert Magnenat
Nevada	Reno	Health	Thomas Herbenick
Nevada	Reno	Health	Ernest N. Scruggs
New Hampshire	Concord	Health & Welfare	William F. Oakman*
New Jersey	Trenton	Health	Florence DeLis*[1]
New Jersey	Trenton	Health	John J. Nelson*[2]
New Mexico	Albuquerque	Public Health	Daniel E. Johnson*
New York	Albany	Health	Ann E. Hohenstein*
New York	Albany	Health	Alice Dagle*
North Carolina	Raleigh	Board of Health	Bryan R. Reep*
North Carolina	Raleigh	Board of Health	William Jamieson*
North Dakota	Bismarck	Health	C. Patton Steele
Ohio	Columbus	Health	Lois Thompson*
Oklahoma	Oklahoma City	Health	Farmer Frisby
Oregon	Salem	Agriculture	J. D. Patterson*
Pennsylvania	Harrisburg	Agriculture	Elwood F. Schaffer*
Pennsylvania	Harrisburg	Agriculture	Harry M. Behney, Jr.*
Rhode Island	Providence	Health	Louis Iacobucci*
South Carolina	Columbia	Board of Health	Joseph C. Harrell*
South Dakota	Pierre	Health	Ben E. Diamond*
Tennessee	Nashville	Public Health	Kenneth Whaley*
Texas	Austin	Health	Joseph N. Murphy, Jr.*
Texas	Austin	Health	W. Howard Day*
Utah	Salt Lake City	Agriculture	Lloyd P. Stevens*
Vermont	Montpelier	Agriculture	Robert Mullen
Virginia	Richmond	Agriculture	Fred W. Rea*
Virginia	Richmond	Health	R. Travis Hill*
Virginia	Richmond	Health	Robert D. Potts*
Washington	Olympia	Agriculture	Frank W. Crews*
Washington	Seattle	Health	Muriel Thompson*
West Virginia	South Charleston	Health	Calvin E. Beckelheimer*
West Virginia	South Charleston	Health	Virginia M. Heaster*
Wisconsin	Madison	Board of Health	Donald I. Thompson*
Wyoming	Laramie	Agriculture	Michael Purko*
Dist. of Columbia	Washington	Public Health	Teresa Milice*[1]
Dist. of Columbia	Washington	Public Health	Eugene Parrish*[2]
Puerto Rico	San Juan	Health	Mary Ramirez
Puerto Rico	San Juan	Health	Roberto Betances

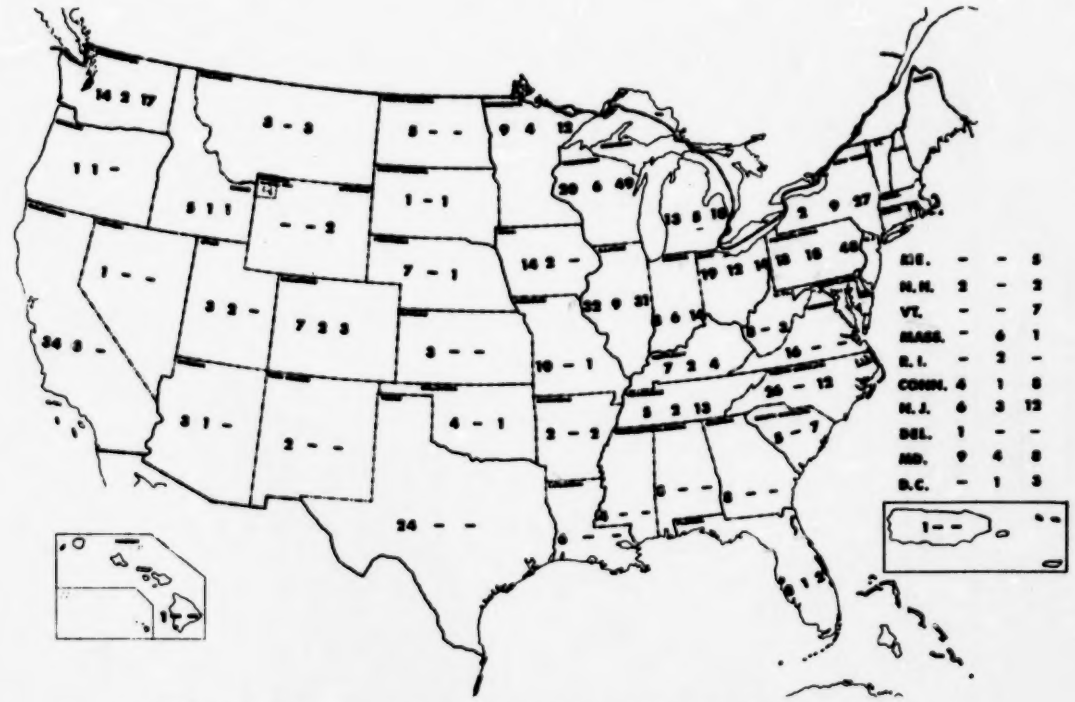
* Has PHS Certificate as State Milk Laboratory Survey Officer.
[1] — Limited to microbiological tests; [2] — Limited to phosphatase tests;
[3] — Limited to raw milk tests.

LOCAL MILK LABORATORIES UNDER STATE REGULATION

As of December 31, 1966, at least 826 local milk laboratories were under state regulation. The number of milk laboratories approved in each state is shown in Figure 5 under one of three categories (official, commercial, or dairy industry). This information also is tabulated alphabetically by states in Table 3, complete with totals for each category, and the number of men and women analysts approved in each state.

Table 4 (pages 14—37) details for each state and alphabetically by communities each official, commercial, and industrial laboratory approved for milk analysis, together with the number of men and women analysts approved in each laboratory. As shown in Table 3, on December 31, 1966, a total of 1691 analysts were approved in the 826 laboratories identified in Table 4, comprised of 389 official, 105 commercial, and 332 dairy industry laboratories.

In addition to analysis in state-approved milk laboratories, in a number of states many official samples are analyzed in state health or agriculture department laboratories. As shown in Table 1, the 55 state laboratories utilize 175 analysts in milk analysis—103 men and 72 women. In the 881 milk laboratories approved by Federal and state agencies on December 31, 1966, 1066 men and 787 women analysts, or a total of 1853 analysts, were approved for bacteriological analysis of milk samples. An additional 12 men and 1 woman chemist were approved for phosphatase tests only.



NOTE: Official laboratories are state regional, county, and/or city laboratories (not including central laboratory of state milk laboratory certifying agency or agencies).

Figure 5—Number of approved official, commercial, and dairy industry milk laboratories on December 31, 1966.

TABLE 8. STATE-APPROVED LOCAL LABORATORIES AND BACTERIOLOGISTS UTILIZED IN 49 STATES (AND D.C.) FOR ANALYSIS OF MILK

December 31, 1966

State	LABORATORIES			PERSONNEL		
	Official	Commercial	Industry	Total	Men	Women
Alabama	8	..	..	20	7	13
Arizona	3	1	..	7	4	3
Arkansas	2	..	2	5	2	3
California	34	3	..	168	76	92
Colorado	7	2	3	15	10	5
Connecticut	4	1	8	22	17	5
Delaware	1	..	..	2	1	1
Florida	8	1	2	23	7	16
Georgia	8	..	..	13	3	10
Hawaii	1	..	..	2	1	1
Idaho	5	1	1	14	6	8
Illinois	32	9	31	135	83	52
Indiana	8	6	14	72	40	32
Iowa	14	2	..	30	19	11
Kansas	3	..	..	8	4	4
Kentucky	7	2	4	19	13	6
Louisiana	6	..	..	18	5	13
Maine	..	..	5	7	2	5
Maryland	9	4	8	60	26	34
Massachusetts	..	6	1	16	10	6
Michigan	13	5	18	74	55	19
Minnesota	9	4	12	64	31	33
Mississippi	4	..	..	5	2	3
Missouri	10	..	1	20	10	10
Montana	3	..	3	7	4	3
Nebraska	7	..	1	14	9	5
Nevada	1	..	..	2	+1	1
New Hampshire	2	..	2	4	3	1
New Jersey	6	3	12	44	30	14
New Mexico	2	..	..	5	3	2
New York	2	9	27	100	73	27
North Carolina	26	..	12	64	26	38
North Dakota	5	..	..	5	5	..

TABLE 3 (Continued) STATE-APPROVED LOCAL LABORATORIES AND BACTERIOLOGISTS UTILIZED IN 49 STATES (AND D.C.) FOR ANALYSIS OF MILK — December 31, 1966

State	LABORATORIES			PERSONNEL		
	Official	Commercial	Industry	Total	Men	Women
Ohio	19	12	14	63	47	16
Oklahoma	4	..	1	9	7	2
Oregon	1	1	..	3	2	1
Pennsylvania	18	18	48	190	120	70
Rhode Island	..	2	..	2	1	1
South Carolina	5	..	7	14	4	10
South Dakota	1	..	1	2	2	..
Tennessee	5	2	13	50	33	17
Texas	24	..	..	63	30+1	32
Utah	3	2	..	7	6	1
Vermont	..	..	7	19	8	11
Virginia	16	..	..	32	15	17
Washington	14	2	17	50	38	12
West Virginia	8	..	3	14	6	8
Wisconsin	20	6	49	91	54	37
Wyoming	..	..	2	2	1	1
District of Columbia	..	1	3	9	7	2
Puerto Rico	1	..	..	4	..	4
Total	389	105	332	1691	973+2	716

+ Limited to phosphatase test.

TABLE 4. ALPHABETICAL LISTING OF LABORATORIES BY STATE WITH LOCATION AND NUMBER OF PERSONNEL

	Location	Total	Men	Women
ALABAMA				
Official Laboratories				
State Dept. of Public Health Branch	Anniston	3	2	1
State Dept. of Public Health Branch	Birmingham	4	1	3
State Dept. of Public Health Branch	Decatur	2	2	..
State Dept. of Public Health Branch	Dothan	2	..	2
State Dept. of Public Health Branch	Huntsville	2	..	2
State Dept. of Public Health Branch	Mobile	3	1	2
State Dept. of Public Health Branch	Selma	2	1	1
State Dept. of Public Health Branch	Tuscaloosa	2	..	2
ARIZONA				
Official Laboratories				
State Dept. of Public Health Branch	Flagstaff	1	1	..
Maricopa County Health Dept.	Phoenix	3	2	1
State Dept. of Public Health Branch	Tucson	2	1	1
Commercial Laboratories				
Thomas Laboratories, Inc.	Yuma	1	..	1
ARKANSAS				
Official Laboratories				
City Health Dept.	Fort Smith	1	..	1
City Health Dept.	Little Rock	1	..	1
Industry Laboratories				
Dean Foods Company	Conway	1	1	..
The Borden Company	Little Rock	2	1	1
CALIFORNIA				
Official Laboratories				
Los Angeles County Branch Health Dept.	Alhambra	1*	..	1
Kern County Health Dept.	Bakersfield	3	2	1
State Dept. of Health	Berkeley	3	2	1
Butte County Health Dept.	Chico	3	3	..
Imperial County Health Dept.	El Centro	2	1	1
Del Norte-Humboldt County Health Dept.	Eureka	2	1	1
Fresno County Health Dept.	Fresno	7	6	1
Inyo County Health Dept.	Independence	2	1	1
City Health Dept.	Long Beach	5	1	4
Los Angeles County Health Dept.	Los Angeles	22*	8	14
Stanilaus County Health Dept.	Modesto	3	2	1
Napa County Health Dept.	Napa	2	..	2
Alameda County Health Dept.	Oakland	8	2	6
Shasta County Health Dept.	Redding	2	1	1
Riverside County Health Dept.	Riverside	4	1	3

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
CALIFORNIA (Continued)				
Monterey County Health Dept.	Salinas	4	2	2
Sacramento County Health Dept.	Sacramento	5	..	5
San Bernardino County Health Dept.	San Bernardino	8	2	6
San Diego County Health Dept.	San Diego	9	5	4
City and County Health Dept.	San Francisco	15	8	7
City Health Dept.	San Jose	5	1	4
Santa Clara County Health Dept.	San Jose	7	4	3
San Luis Obispo County Health Dept.	San Luis Obispo	3	..	3
San Mateo County Health Dept.	San Mateo	6	2	4
Orange County Health Dept.	Santa Ana	8	3	5
Santa Barbara County Health Dept.	Santa Barbara	2	..	2
Santa Cruz County Health Dept.	Santa Cruz	2	2	..
Santa Barbara County Health Dept.	Santa Maria	1	..	1
Sonoma County Health Dept.	Santa Rosa	2	2	..
San Joaquin County Health District	Stockton	3	1	2
Los Angeles County Branch Health Dept.	Tulare	5	3	2
Ventura County Health Dept.	Ventura	3	2	1
Yolo County Health Dept.	Woodland	2	1	1
Sutter-Yuba County Health Dept.	Yuba City	2	2	..
Commercial Laboratories				
Robinson Laboratory	Merced	1	1	..
California Dairy Laboratory	Mill Valley	1	1	..
Dairy Products Laboratory	San Francisco	5	3	2

* Personnel shared and switched at regular intervals between laboratories.

COLORADO				
Official Laboratories				
El Paso City-County Health Dept.	Colorado Springs	1	1	..
Dept. of Health and Hospitals	Denver	2	..	2
San Juan Basin Health Unit	Durango	1	..	1
Mesa County Health Dept.	Grand Junction	1	1	..
Weld County Health Dept.	Greeley	2	2	..
City-County Health Dept.	Pueblo	1	1	..
Northeast Colorado Health Dept.	Sterling	1	1	..
Commercial Laboratories				
Biological Research Laboratory	Arvada	1	1	..
Davis Laboratories	Denver	2	1	1
Industry Laboratories				
Sinton Dairy	Colorado Springs	1	1	..
Arden Meadow-Gold	Delta	1	..	1
Denver Milk Producers Association	Denver	1	1	..

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
CONNECTICUT				
Official Laboratories				
Division of Laboratories	Bridgeport	2	..	2
Health Dept.	Hartford	2	2	..
Health Dept.	New Britain	1	1	..
Health Dept.	Waterbury	1	..	1
Commercial Laboratories				
Dairy Control Service Laboratory	Stratford	2	2	..
Industry Laboratories				
Brock-Hall Dairy Co.	Hamden	2	1	1
H. P. Hood & Sons	Hartford	2	2	..
Sealtest Foods—Div. of Natl. Dairy Prod.	Hartford	3	3	..
Guida-Seibert	New Britain	1	1	..
Conn. Milk Producers' Assoc.	Newington	2	2	..
Knudsen Bros. Dairy Co.	North Haven	1	1	..
Borden's Mitchell Dairy	Stratford	2	1	1
A. C. Petersen Farms, Inc.	West Hartford	1	1	..
DELAWARE				
Official Laboratories				
City Health Dept.	Wilmington	2	1	1
DISTRICT OF COLUMBIA				
Commercial Laboratories				
C. W. England Laboratories	Washington	2	2	..
Industry Laboratories				
Maryland & Virginia Milk Producers Assn.	Arlington, Va.	2	1	1
Sealtest Foods	Washington	3	3	..
Thompsons Dairy	Washington	1	1	..
FLORIDA				
Official Laboratories				
State Board of Health Region	Miami	2	1	1
State Board of Health Region	Orlando	3	..	3
State Board of Health Region	Pensacola	4	1	3
State Board of Health Region	Tallahassee	1	..	1
State Dept. of Agriculture Mobile Lab. #1	Tallahassee	2	2	..
State Dept. of Agriculture Mobile Lab. #2	Tallahassee	2	2	..
State Board of Health Region	Tampa	2	..	2
State Board of Health Region	West Palm Beach	3	..	3

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
FLORIDA (Continued)				
Commercial Laboratories				
Expert Dairy Service, Inc.	Miami	1	..	1
Industry Laboratories				
Independent Dairy Farmers Assoc.	Fort Lauderdale	1	..	1
T. G. Lee Dairy	Orlando	2	1	1
GEORGIA				
Official Laboratories				
State Dept. of Public Health Region	Albany	2	1	1
Clarke County Health Dept.	Athens	1	..	1
Fulton County Health Dept.	Atlanta	1	1	..
Richmond County Health Dept.	Augusta	1	..	1
Muscogee County Health Dept.	Columbus	1	..	1
State Dept. of Public Health Region	Macon	2	..	2
Chatham County Health Dept.	Savannah	2	1	1
State Dept. of Public Health Region	Waycross	3	..	3
HAWAII				
Official Laboratories				
Hawaii County	Hilo	2	1	1
IDAHO				
Official Laboratories				
State Dept. of Health Region	Coeur d'Alene	2	1	1
State Dept. of Health Region	Idaho Falls	2	1	1
State Dept. of Health Region	Lewiston	2	..	2
State Dept. of Health Region	Pocatello	2	1	1
State Dept. of Health Region	Twin Falls	3	1	2
Commercial Laboratories				
Hibbs Laboratories	Boise	1	1	..
Industry Laboratories				
Upper Snake River Dairymen's Assoc.	Idaho Falls	2	1	1
ILLINOIS				
Official Laboratories				
Alton State Hospital	Alton	1	1	..
Peoria State Hospital	Bartonville	2	..	2
Health Dept.	Berwyn	1	..	1
State Health Dept.	Carbondale	3	2	1
State Health Dept.	Champaign	1	..	1
Board of Health	Chicago	3	1	2

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
ILLINOIS (Continued)				
Chicago State Hospital	Chicago	2	2	..
Macon County Health Dept.	Decatur	1	1	..
Dixon State School	Dixon	1	..	1
East Moline State Hospital	East Moline	1	1	..
State Health Dept.	East St. Louis	2	2	..
Health Dept.	Elgin	2	2	..
Evanston North Shore Health Dept.	Evanston	4	..	4
Galesburg State Research Hospital	Galesburg	2	1	1
Jacksonville State Hospital	Jacksonville	1	..	1
Illinois State Penitentiary	Joliet	1	1	..
Kankakee State Hospital	Kankakee	2	1	1
Hygienic Institute	LaSalle	1	..	1
Lincoln State School	Lincoln	2	2	..
Manteno State Hospital	Manteno	2	1	1
Health Dept.	Moline	2	1	1
Health Dept.	Peoria	3	1	2
Illinois State Penitentiary	Pontiac	1	1	..
Perry Memorial Hospital	Princeton	3	..	3
Health Dept.	Rock Island	2	1	1
State Health Dept.	Rock Island	3	..	3
Health Dept.	Rockford	4	1	3
Health Dept.	Springfield	1	1	..
State Health Dept.	Springfield	4	1	3
Tinley Park State Hospital	Tinley Park	1	1	..
Health Dept.	Wilmette	1	1	..
Lake County Health Dept.	Waukegan	3	3	..
Commercial Laboratories				
Clinical Laboratory	Aurora	2	1	1
Chicago Dairy & Food Laboratories	Chicago	5	4	1
Markham Laboratories	Chicago	2	1	1
Suburban Laboratories	Cicero	2	1	1
Sackett Laboratories	Elgin	2	1	1
Oak Park Laboratories, Inc.	Forest Park	3	2	1
St. Joseph Hospital	Highland	1	..	1
P & D Laboratory	Nokomis	2	2	..
Daily Milk Laboratory	Peoria	2	1	1
Industry Laboratories				
Oatman Brothers	Aurora	1	1	..
Prairie Farms	Carbondale	1	..	1
Prairie Farms	Carlinville	1	..	1
Midwest Dairy Products	Centralia	1	1	..
Beatrice Foods Co., Control	Champaign	1	..	1

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
ILLINOIS (Continued)				
Beatrice Foods Co.	Champaign	2	..	2
National Milk Producers Federation	Champaign	1	1	..
Dean Milk Company	Chemung	2	2	..
Chester Dairy Company	Chester	1	1	..
Beatrice Foods Company	Chicago	3	3	..
Pure Milk Assoc.	Chicago	3	3	..
Sunshine Dairy	Decatur	2	1	1
Lawton Dairy Company	Dixon	2	1	1
Ludwig Milk Company	Elgin	1	1	..
Modern Dairy Company	Elgin	1	1	..
Aro-Dressel Corporation	Granite City	2	1	1
Country's Delight Milk Products	Hampshire	2	1	1
Dairy Brand, Inc.	Harrisburg	1	1	..
Dean Milk Company	Huntley	2	2	..
Willow Farms Dairy	LaGrange	1	1	..
Litchfield Creamery	Litchfield	2	1	1
Beatrice Foods Company	Mattoon	1	1	..
Prairie Farms	Olney	1	1	..
Producers Dairy	Peoria	2	2	..
Sealtest-National Dairy Products	Peoria	2	1	1
Prairie Farms	Quincy	1	1	..
Bowman Dairy Company	River Forest	1	1	..
Dean Milk Company	Rockford	4	4	..
Muller's Pinehurst Dairy	Rockford	1	1	..
Kraft Foods	Stockton	1	1	..
Borden Company	Woodstock	2	2	..
INDIANA				
Official Laboratories				
Evansville-Vanderburgh County Dept. of Health	Evansville	1	1	..
Board of Public Health	Fort Wayne	2	2	..
Health Dept.	Gary	2	..	2
Health Dept.	Hammond	1	..	1
Health & Hospital Corporation of Marion County	Indianapolis	3	2	1
State Hospital	Logansport	3	..	3
State Hospital	Madison	2	1	1
Health Dept.	Michigan City	1	1	..
Commercial Laboratories				
Mansfield Laboratories, Inc.	Elkhart	2	1	1
W. K. Moseley Laboratory	Indianapolis	8	4	4

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
INDIANA (Continued)				
Physicians Clinical Laboratory	Lafayette	1	..	1
Dr. Robert J. Frost Clinical Laboratory	LaPorte	2	1	1
Allied Testing Laboratory	Madison	1	1	..
South Bend Medical Foundation, Inc.	South Bend	2	1	1
Industry Laboratories				
Hawthorn-Mellody Farms Dairy, Inc.	Berne	1	1	..
Ideal Pure Milk Company, Inc.	Evansville	3	1	2
Wayne Co-operative Milk Producers, Inc.	Fort Wayne	3	2	1
Dixie Dairy Company	Gary	2	2	..
Goshen Milk Division—Orrville Milk Co.	Goshen	5	4	1
Holland Custard and Ice Cream, Inc.	Holland	4	2	2
Borden Company—Milk Division	Indianapolis	3	1	2
Kroger Company Dairy	Indianapolis	5	4	1
Sutter's Dairy Products, Inc.	Marion	2	1	1
New Paris Creamery Company	New Paris	2	2	..
Dean Milk Company	Rochester	2	2	..
Hawthorn-Mellody Farms Dairy, Inc.	South Bend	1	1	..
Mid-West Producers Creameries, Inc.	South Bend	5	1	4
Litchfield Creamery Company	Warsaw	3	1	2
IOWA				
Official Laboratories				
Des Moines County Health Dept.	Burlington	1	1	..
Carroll Unit	Carroll	1	1	..
Health Dept.	Cedar Rapids	2	..	2
Health Dept.	Clinton	1	1	..
Board of Health	Davenport	2	1	1
Polk County Health Dept.	Des Moines	3	1	2
Health Dept.	Dubuque	2	2	..
State Hygienic Laboratory	Iowa City	3	1	2
Health Dept.	Keokuk	1	1	..
Manchester Unit	Manchester	3	1	2
Health Dept.	Marshalltown	1	1	..
Health Dept.	Mason City	1	1	..
Health Dept.	Sioux City	2	2	..
Health Dept.	Waterloo	2	1	1
Commercial Laboratories				
Dairy and Food Analysis Laboratory Iowa State University	Ames	1	1	..
Sanitation Laboratories	Cedar Rapids	4	3	1

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
KANSAS				
Official Laboratories				
City-County Health Dept.	Kansas City	2	..	2
State Board of Agriculture	Topeka	4	2	2
City-County Health Dept.	Wichita	2	2	..
KENTUCKY				
Official Laboratories				
Ashland-Boyd County Health Dept.	Ashland	1	..	1
Warren County Health Dept.	Bowling Green	1	1	..
Covington-Kenton County Health Dept.	Covington	2	2	..
Lexington-Fayett[illegible]ounty Health Dept.	Lexington	1	1	..
Louisville-Jefferson County Health Dept.	Louisville	3	2	1
Health Dept.	Newport	2	2	..
State Dept. of Health Branch	Paducah	3	..	3
Commercial Laboratories				
Kentucky Testing Laboratory	Fern Creek	1	1	..
Kentucky Laboratory	Lexington	1	1	..
Industry Laboratories				
Dean Milk Company	Louisville	1	1	..
Sealtest Foods Company	Louisville	1	1	..
Kyana Milk Producers, Inc.	Louisville	1	..	1
Paducah Graded Milk Producers, Inc.	Paducah	1	1	..
LOUISIANA				
Official Laboratories				
State Board of Health Region	Alexandria	2	..	2
State Board of Health Milk	Amite	3	1	2
State Board of Health Region	Lafayette	3	2	1
State Board of Health Region	Lake Charles	4	..	4
State Board of Health Region	Monroe	3	1	2
State Board of Health Region	Shreveport	3	1	2
MAINE				
Industry Laboratories				
United Farmers of New England	Albion	1	..	1
H. P. Hood & Sons	Newport	2	..	2
H. P. Hood & Sons	Portland	2	..	2
Oakhurst	Portland	1	1	..
Old Tavern Farm, Inc.	Portland	1	1	..

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
MARYLAND				
Official Laboratories				
State Dept. of Health Branch	Annapolis	2	1	1
Health Dept.	Baltimore	6	2	4
State Dept. of Health Branch	Cambridge	2	..	2
State Dept. of Health Branch	Cheverly	3	1	2
State Dept. of Health Branch	Cumberland	4	..	4
State Dept. of Health Branch	Easton	4	1	3
State Dept. of Health Branch	Elkton	2	1	1
State Dept. of Health Branch	Frederick	4	1	3
State Dept. of Health Branch	Salisbury	4	1	3
Commercial Laboratories				
Finney Associates, Inc.	Baltimore	2	1	1
England Laboratories	Frederick	3	2	1
C. W. England Laboratories, Inc.	Laurel	2	2	..
W. W. Laboratories	Pikesville	2	1	1
Industry Laboratories				
Borden Co. (Hendler Division)	Baltimore	3	1	2
Greenspring Dairy, Inc.	Baltimore	3	2	1
Koontz Creamery, Inc.	Baltimore	3	3	..
Maryland Cooperative Milk Producers, Inc.	Baltimore	4	1	3
Sealtest Foods	Baltimore	2	2	..
Liberty Milk Company	Cumberland	1	1	..
Queen City Cooperative Dairy, Inc.	Cumberland	2	..	2
Safeway Stores	Landover	2	2	..
MASSACHUSETTS				
Commercial Laboratories				
Dairy Laboratory Service	Acton	1	1	..
Howard Research Laboratories	Amherst	1	1	..
Massachusetts Dairy Laboratories	Boston	3	1	2
Mutter's Testing Laboratory	Holyoke	2	1	1
Lawrence Medical Laboratory	Lawrence	1	1	..
Reilly's Laboratories	Weymouth	2	1	1
Industry Laboratories				
H. P. Hood & Sons	Boston	4	3	1
MICHIGAN				
Official Laboratories				
Washtenaw County Health Dept.	Ann Arbor	1	1	..
Bay County Health Dept.	Bay City	3	1	2

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
MICHIGAN (Continued)				
City Health Dept.	Detroit	1	1	..
Wayne County General Hospital	Eloise	2	..	2
City Health Dept.	Flint	2	2	..
Western Mich. Section, State Dept. of Health	Grand Rapids	1	1	..
State Dept. of Health Section	Houghton	3	1	2
City-County Health Dept.	Jackson	1	1	..
Macomb County Health Dept.	Mt. Clemens	2	1	1
Oakland County Health Dept.	Pontiac	2	2	..
St. Clair County Health Dept.	Port Huron	2	..	2
State Dept. of Health Section	Powers	2	2	..
Saginaw County Health Dept.	Saginaw	2	1	1
Commercial Laboratories				
Robison Brown Testing Company	Detroit	2	2	..
Reacon Laboratories	Grand Ledge	2	2	..
Market Milk Service Laboratory	Niles	3	2	1
H. O. Helms Dairy Products Laboratory	Traverse City	1	..	1
Kar Laboratories	Kalamazoo	3	3	..
Industry Laboratories				
Michigan Producers Dairy Company	Adrian	2	2	..
The Borden Company	Bay City	1	1	..
McDonald Milk Company	Chesaning	2	2	..
Constantine Cooperative Creamery	Constantine	2	2	..
Wilson Bros. Dairy	Detroit	2	1	1
National Dairies	Detroit	1	..	1
Liberty Dairy, Dean Food Co.	Evart	1	1	..
Dean Food Company	Flint	2	2	..
McDonald Milk Company	Flint	1	1	..
Joppies Dairy Company	Grand Rapids	1	1	..
Michigan Milk Producers Association	Imlay City	4	..	4
The Borden Company	Madison Heights	5	5	..
Wyeth Laboratories	Mason	3	2	1
Michigan Milk Producers Assoc.	Ovid	4	4	..
Berrien County Coop.	St. Joseph	1	1	..
Michigan Milk Producers Assoc.	Saranac	2	2	..
Michigan Producers Dairy Company	Sebewaing	1	1	..
Mead Johnson Company	Zeeland	4	4	..
MINNESOTA				
Official Laboratories				
Health Dept.	Albert Lea	2	1	1
Health Dept.	Duluth	2	2	..
Health Dept.	Fergus Falls	1	1	..

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
MINNESOTA (Continued)				
Division of Public Health	Minneapolis	4	3	1
Health Dept.	Moorhead	2	1	1
Rochester-Olmsted Health Dept.	Rochester	1	1	..
Health Dept.	St. Cloud	1	1	..
Bureau of Health	St. Paul	2	..	2
Health Dept.	Winona	1	..	1
Commercial Laboratories				
Northern Lakes Dairy Laboratory	Bemidji	1	..	1
Minnesota Valley Dairy and Testing Laboratory, Inc.	New Ulm	5	3	2
Dairy Products Laboratory	St. Paul	2	1	1
Wadena Dairy Products Laboratory	Wadena	4	2	2
Industry Laboratories				
Albert Lea Cooperative Creamery Assoc.	Albert Lea	2	1	1
Bertha Cooperative Creamery Assoc.	Bertha	1	..	1
Todd County Dairy Cooperative	Browerville	9	4	5
Land O'Lakes Creameries, Inc.— Bridgeman Creamery Division	Crookston	1	..	1
Pelican-Lakes Dairy Cooperative	Detroit Lakes	1	1	..
Fergus Dairy Cooperative	Fergus Falls	2	1	1
First District Association	Litchfield	1	1	..
Land O'Lakes Creamery, Inc.	Minneapolis	4	1	3
Fairmont Foods Company	Moorhead	3	2	1
Marigold Foods, Inc.	Rochester	3	1	2
Rochester Dairy Cooperative	Rochester	4	1	3
Quality Control Committee	St. Paul	5	2	3
MISSISSIPPI				
Official Laboratories				
State Board of Health Branch	Columbus	1	..	1
State Board of Health Branch	Gulfport	2	..	2
State Board of Health Branch	Magnolia	1	1	..
State Board of Health Branch	Tupelo	1	1	..
MISSOURI				
Official Laboratories				
Health Dept.	Chillicothe	1	1	..
St. Louis County Health Dept.	Clayton	1	..	1
Health Dept.	Columbia	1	1	..
Health Dept.	Joplin	1	..	1
Health Dept.	Kansas City	2	2	..
State Division of Health—District #4	Poplar Bluff	3	1	2
State Division of Health—District #5	Springfield	3	1	2

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
MISSOURI (Continued)				
Health Dept.	Springfield	2	2	..
Health Dept.	St. Joseph	3	1	2
Health Dept.	St. Louis	2	1	1
Industry Laboratories				
Armour Creameries	Springfield	1	..	1
MONTANA				
Official Laboratories				
Health Dept.	Billings	2	1	1
City-County Health Dept.	Great Falls	1	1	..
City-County Health Dept.	Missoula	1	..	1
Industry Laboratories				
Safeway Stores, Inc.	Butte	1	1	..
Vita-Rich Dairy	Havre	1	..	1
Beatrice Foods Company	Missoula	1	1	..
NEBRASKA				
Official Laboratories				
Grand Island-Hall County Health Dept.	Grand Island	2	..	2
Health Dept.	Hastings	2	2	..
Lincoln-Lancaster County Health Dept.	Lincoln	2	2	..
Health Dept.	McCook	1	1	..
Health Dept.	North Platte	2	2	..
Omaha-Douglas County Health Dept.	Omaha	3	2	1
State Health Dept., West Nebraska Branch	Scottsbluff	2	2	..
Industry Laboratories				
Nebraska-Iowa Milk Assoc.	Lincoln	2	1	1
NEVADA				
Official Laboratories				
State Dept. of Health Branch	Las Vegas	3	2+1	..
NEW HAMPSHIRE				
Official Laboratories				
Laconia Health Dept.	Laconia	1	..	1
Nashua Health Dept.	Nashua	1	1	..
Industry Laboratories				
New Hampshire Dairy Corp.	Manchester	1	1	..
Laboratory Service, Inc.	Nashua	1	1	..

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
NEW JERSEY				
Official Laboratories				
Milk Inspection Assoc. of Oranges and Maplewood	East Orange	2	1	1
Health Dept.	Jersey City	2	..	2
Health Dept.	Newark	3	2	1
Health Dept.	New Brunswick	1	1	..
Bergen Pines County Hospital	Paramus	2	..	2
Health Dept.	Paterson	3	..	3
Commercial Laboratories				
Deschu Dairy Laborory	Bound Brook	1	1	..
Garden State Laboratories	Irvington	3	2	1
New Jersey Dairy Laboratories	New Brunswick	3	2	1
Sani-Pure Dairy Laboratory	Rochelle Park	3	3	..
Industry Laboratories				
Shoemaker Dairies, Inc.	Bridgeton	1	1	..
Farmland Dairy	Fair Lawn	1	1	..
Johanna Farms	Flemington	2	2	..
Swift Ice Cream	Kearny	2	2	..
Borden's Farm Products of New Jersey	Newark	2	2	..
Ideal Farms	North Haledon	1	1	..
Alderney-Puritan Dairy Company	Perth Amboy	3	2	1
Walker-Gordon Dairy	Plainsboro	3	2	1
Port Murray Dairy	Port Murray	2	1	1
Raritan Valley Farms	Somerville	1	1	..
Borden's Dairy	Sussex	3	3	..
NEW MEXICO				
Official Laboratories				
State Dept. of Public Health Branch	Clovis	3	2	1
State Dept. of Public Health Branch	Farmington	2	1	1
NEW YORK				
Official Laboratories				
Erie County	Buffalo	2	..	2
City Dept. of Health	New York	5	2	3
Commercial Laboratories				
Howe's Laboratory Service	Canajoharie	2	2	..
Collins Dairy and Food Laboratory	Cortland	2	1	1
Ransford Dairy Laboratory	Fredonia	1	1	..
McAndrew Dairy Laboratory	Hamburg	1	1	..
Orange County Dairy Laboratory	Middletown	4	1	3
Certified Laboratories, Inc.	New York	3	2	1
General Dairy Service Corporation	Saratoga Springs	2	2	..
General Dairy Service Corporation	Utica	4	3	1
Mellon's Dairy Laboratory	Waverly	2	2	..

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
NEW YORK (Continued)				
Industry Laboratories				
Norman's Kill Farm Laboratory	Albany	1	1	..
Borden's Foods Company	Arcade	3	3	..
Grandview Dairy, Inc.	Arkport	3	..	3
Crowley's Milk Company	Binghamton	5	4	1
Dairymen's League Co-op. Assoc., Inc.	Buffalo	3	3	..
Upstate Milk Co-operatives, Inc.	Buffalo	2	..	2
Queensboro Farm Products, Inc.	Canastota	2	1	1
Borden's Farm Products	Cincinnatus	2	2	..
Alderney Dairy Co.	Cohocton	2	2	..
H. P. Hood & Sons	Eagle Bridge	3	..	3
Dellwood Dairy	Frasers	2	1	1
Dairymen's League Co-op. Assoc., Inc.	Goshen	3	3	..
Sealtest Foods	Homer	4	3	1
Dairymen's League Co-op. Assoc., Inc.	Horseheads	2	2	..
Crowley's Milk Company	LaFargeville	4	2	2
Borden's Farm Products	Long Island City	4	4	..
Borden's Farm Products	Mexico	1	1	..
Sealtest Foods	North Lawrence	5	4	1
Dairymen's League Co-op. Assoc., Inc.	Ogdensburg	3	3	..
Sealtest Foods	Rochester	2	1	1
Sealtest Foods	Schenectady	2	2	..
Cooperdale Dairy Company, Inc.	Skaneateles Jct.	2	2	..
Dairymen's League Co-op. Assoc., Inc.	Syracuse	4	4	..
Dairymen's League Co-op. Assoc., Inc.	Vernon	2	2	..
Borden's Farm Products	Watertown	4	4	..
Dairymen's League Co-op. Assoc., Inc.	Woodside	2	2	..
Dellwood Dairy	Yonkers	2	1	1
NORTH CAROLINA				
Official Laboratories				
Buncombe County Health Dept.	Asheville	3	2	1
Mecklenburg County Health Dept.	Charlotte	6	1	5
Cabarrus County Health Dept.	Concord	1	1	..
Durham County Health Dept.	Durham	1	1	..
Pasquotank District Health Center	Elizabeth City	1	..	1
Cumberland County Health Dept.	Fayetteville	1	..	1
Gaston County Health Dept.	Gastonia	1	1	..
Wayne County Health Dept.	Goldsboro	1	..	1
Guilford County Health Dept.	Greensboro	2	..	2
District Health Dept.	Hickory	1	..	1
Guilford County Health Dept.	High Point	1	..	1
Davidson County Health Dept.	Lexington	1	1	..
Union County Health Dept.	Monroe	2	1	1
Surry County Health Dept.	Mount Airy	1	1	..

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
NORTH CAROLINA (Continued)				
Craven County Health Dept.	New Bern	3	1	2
Wake County Health Dept.	Raleigh	1	..	1
State Dept. of Agriculture	Raleigh	3	1	2
Health Dept.	Rocky Mount	1	..	1
Rowan County Health Dept.	Salisbury	1	1	..
State Dept. of Agriculture Mobile Laboratory	Salisbury	1	1	..
Cleveland County Health Dept.	Shelby	1	..	1
Iredell County Health Dept.	Statesville	1	..	1
Montgomery County Health Dept.	Troy	1	1	..
Haywood County Health Dept.	Waynesville	1	..	1
New Hanover County Health Dept.	Wilmington	2	..	2
Forsyth County Health Dept.	Winston-Salem	2	1	1
Industry Laboratories				
Sealtest Foods, Inc.	Asheville	2	1	1
Biltmore Dairy Farms	Biltmore	1	..	1
Guilford Dairy Cooperative Assoc., Inc.	Greensboro	1	1	..
Borden Company	High Point	1	..	1
Long Meadow Farms, Inc.	Durham	1	..	1
Coble Dairy Products Cooperative	Lexington	3	2	1
Maola Milk and Ice Cream Company	New Bern	2	..	2
Montgomery Dairy Products, Inc.	Troy	1	1	..
Yadkin Valley Dairy Cooperative	Wilkesboro	2	1	1
Sealtest Foods, Inc.	Wilson	1	..	1
Farmer Dairy Cooperative	Winston-Salem	2	1	1
Sealtest Foods, Inc.	Winston-Salem	3	2	1
NORTH DAKOTA				
Official Laboratories				
Lake Region Health Unit	Devils Lake	1	1	..
Public Health Dept.	Fargo	1	1	..
State Public Health	Grand Forks	1	1	..
First District Health Unit	Minot	1	1	..
Upper Missouri District Health Unit	Williston	1	1	..
OHIO				
Official Laboratories				
Health Dept.	Akron	1	..	1
Health Dept.	Canton	2	2	..
Health Dept.	Cincinnati	4	4	..
Health Dept.	Cleveland	2	2	..
Health Dept.	Columbus	1	1	..
Health Dept.	Dayton	2	..	2
Health Dept.	Elyria	1	1	..
Health Dept.	Hamilton	1	..	1

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
OHIO (Continued)				
Lima-Allen County Health Dept.	Lima	1	1	..
Health Dept.	Lorain	1	1	..
Health Dept.	Marion	1	1	..
Health Dept.	Massillon	1	1	..
Ohio Dept. of Health, Southeast Branch	Nelsonville	2	2	..
Lorain County Health Dept.	Oberlin	1	1	..
Belmont County Health Dept.	St. Clairsville	1	1	..
Sandusky-Erie County Health Dept.	Sandusky	1	1	..
Health Dept.	Steubenville	1	..	1
Health Dept.	Toledo	2	..	2
Health Dept.	Youngstown	1	..	1
Commercial Laboratories				
Smith Medical Laboratory	Ashtabula	1	1	..
Bowling Green Clinical Laboratory	Bowling Green	1	1	..
Hill Top Laboratories, Inc.	Cincinnati	1	1	..
Accra Laboratories, Inc.	Cleveland	2	1	1
R & D Laboratory	Columbus	1	1	..
Johnson Clinical Laboratory	Coshocton	2	1	1
Dille Laboratory	Dayton	1	1	..
Dairy Laboratory Service	Elyria	1	1	..
Mansfield General Hospital	Mansfield	1	..	1
Brookside Research Laboratory	New Knoxville	2	2	..
Hoppel Medical Laboratory	Tiffin	1	..	1
Wooster Community Hospital Laboratory	Wooster	1	1	..
Industry Laboratories				
Akron Milk Producers, Inc.	Akron	2	1	1
Borden Milk Company	Akron	2	1	1
Fairmont Foods	Athens	1	1	..
French-Bauer Dairy	Cincinnati	1	1	..
Sealtest Foods	Cincinnati	1	1	..
Fairmont Foods	Cleveland	1	1	..
Hillside Dairy	Cleveland Hgts.	1	1	..
Pet Milk Company	Coldwater	1	1	..
Westerville Creamery	Covington	1	1	..
Lawson Milk Company	Cuyahoga Falls	1	1	..
Broughton's Farm Dairy, Inc.	Marietta	3	3	..
Beatrice Foods	New Bremen	2	1	1
Coshocton Dairy Cooperative, Inc.	Newcomerstown	1	1	..
Orrville Milk Company	Orrville	3	2	1
OKLAHOMA				
Official Laboratories				
State Dept. of Health Branch	Elk City	1	1	..
State Dept. of Health Branch	Lawton	2	1	1

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
OKLAHOMA (Continued)				
City-County Health Dept.	Oklahoma City	3	3	..
City-County Health Dept.	Tulsa	2	1	1
Industry Laboratories				
Central Oklahoma Milk Producers	Oklahoma City	1	1	..
OREGON				
Official Laboratories				
Health Dept.	Portland	1	1	..
Commercial Laboratories				
Drs. Furrer, McMilan, Patton & Starr Clinical Laboratory	Eugene	2	1	1
PENNSYLVANIA				
Official Laboratories				
City	Allentown	3	1	2
Ambridge Borough	Ambridge	1	1	..
Lower Merion Twp. Board of Health	Ardmore	1	1	..
City	Bethlehem	3	2	1
R. B. Bruno Analytical Laboratory	Coatesville	1	1	..
City	Easton	3	2	1
Erie Testing Laboratories	Erie	3	2	1
Hanover Borough Milk	Hanover	2	1	1
Schiller Laboratory	Ingomar	3	2	1
Goodell Laboratory	Lancaster	1	..	1
Leland Brown Laboratories	Lansdowne	3	2	1
LaWall & Harrison	Philadelphia	1	1	..
Community Health Services	Philadelphia	1	..	1
Allegheny County Public Health	Pittsburgh	2	1	1
City	Reading	1	..	1
Kirby Memorial Health Center	Wilkes-Barre	2	1	1
Seewald Laboratories	Williamsport	3	2	1
City	York	1	1	..
Commercial Laboratories				
Keiter Dairy Laboratories	Allentown	4	1	3
Kendall Laboratories	Altoona	3	2	1
Easton Laboratories	Easton	1	1	..
Howard L. Cummings	Elizabethtown	2	2	..
Fox Medical Laboratory	Creensburg	2	1	1
Allen Laboratories, Inc.	Harrisburg	2	1	1
Strand Laboratories	Johnstown	1	1	..
Kennett Laboratories	Kennett Square	1	1	..
Lancaster Laboratories, Inc.	Lancaster	1	1	..
Bucknell Health Service Laboratory	Lewisburg	1	1	..
Stratton's Laboratory	New Castle	4	3	1

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
PENNSYLVANIA (Continued)				
Dairy Laboratories	Philadelphia	4	4	..
Q. C., Inc.—Quality Control Laboratory Div.	Philadelphia	7	3	4
Dairy Products Laboratory	Pittsburgh	6	2	4
Schuylkill Dairy Laboratory	Pottsville	3	2	1
York County Dairy Laboratories	Spring Grove	1	..	1
Pocono Biological Laboratories, Inc.	Stroudsburg	3	2	1
Eastern Laboratory Service	York	1	1	..
Industry Laboratories				
Freeman's Dairy	Allentown	1	1	..
Lehigh Valley Coop. Farmers	Allentown	5	3	2
Abbotts Dairies Division—Fairmont Foods	Belleville	3	..	3
Dairymen's League	Berwick	1	1	..
Monroe County Co-op Dairy	Brodheadsville	1	..	1
Philadelphia Dairy Products Co.	Dushore	2	2	..
Sterling Milk, Inc.	Erie	1	1	..
Farmers' Co-op. Dairy	Hazleton	2	1	1
Hershey Creamery Co.	Harrisburg	3	1	2
Harrisburg Dairies	Harrisburg	3	1	2
Hershey Chocolate Corp. Dairy	Hershey	2	2	..
Hershey Estates	Hershey	1	1	..
Johnstown Sanitary Dairy	Johnstown	4	1	3
Penn Dairies, Inc.	Lancaster	5	5	..
Queen Dairy Company	Lancaster	1	1	..
Martin Century Farms — Lehigh Valley Coop. Farmers	Lansdale	4	2	2
Wengert's Dairy	Lebanon	2	1	1
Sealtest Foods	Lewisburg	2	2	..
East Smithfield Farms, Inc.	Liberty	2	1	1
Menzie Dairy	McKeesport	2	2	..
United Creameries, Inc.	Middlebury Cntr.	1	1	..
Zausner Foods Corp.	New Holland	1	1	..
Abbots Dairies Division—Fairmont Foods	Philadelphia	7	3	4
Breuninger's Dairy	Philadelphia	2	2	..
Breyer Ice Cream Division	Philadelphia	4	1	3
Harbison's Dairies, Inc.	Philadelphia	4	3	1
Martin Century Farms — Lehigh Valley Coop. Farmers	Philadelphia	3	1	2
Sealtest Foods	Philadelphia	6	6	..
Shearer's Dairies	Philadelphia	1	1	..
Sylvan Seal Milk, Inc.	Philadelphia	4	2	2
Country Belle Coop Farmers	Pittsburgh	2	1	1
Harmony Dairy Co.	Pittsburgh	1	..	1
Sealtest Foods	Pittsburgh	1	1	..
Brokhoff Division—Lehigh Valley Coop Farmers	Pottsville	2	2	..

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
PENNSYLVANIA (Continued)				
Dietrich's Dairy	Reading	2	2	..
St. Lawrence Dairy	Reading	1	1	..
Woodson Dairy, Inc.	Red Hill	1	1	..
Warner's Dairy	Red Lion	1	1	..
Dairymen's League	Scranton	3	2	1
Woodlawn Farm Dairy Co.	Scranton	3	2	1
Berkey Milk Co.	Somerset	1	1	..
Hurr's Dairy	So. Williamsport	1	..	1
Troy Dairy Farms	Troy	1	1	..
Aldovin Dairy, Inc.	Tunkhannock	3	2	1
University Creamery	University Park	2	1	1
Walker Creamery	Warren	1	1	..
Susquehanna Valley Farms	Williamsport	1	1	..
Rutter Brothers Dairy	York	1	..	1
PUERTO RICO				
Official Laboratories				
Western Region	Mayaguez	4	..	4
RHODE ISLAND				
Commercial Laboratories				
New England Testing Laboratory, Inc.	No. Providence	1	1	..
Rhode Island Quality Milk Assoc.	Warwick	1	..	1
SOUTH CAROLINA				
Official Laboratories				
State Board of Health District	Anderson	1	..	1
Charleston County Health Dept.	Charleston	2	..	2
State Board of Health District	Florence	1	..	1
Health Dept.	Greenville	1	..	1
State Board of Health District	Walterboro	1	..	1
Industry Laboratories				
Coble Dairy	Anderson	1	..	1
Coburg Dairy	Charleston	1	..	1
Edisto Dairy	Columbia	1	1	..
Pet Dairy	Columbia	1	1	..
Sealtest Foods, Inc.—Southern Dairies	Florence	1	..	1
Pet Dairy	Greenville	1	1	..
Superbrand Dairy Products	Greenville	2	1	1
SOUTH DAKOTA				
Official Laboratories				
Health Dept.	Sioux Falls	1	1	..
Industry Laboratories				
Milk Producers Assoc.	Sioux Falls	1	1	..

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
TENNESSEE				
Official Laboratories				
State Dept. of Public Health Branch	Chattanooga	4	2	2
State Dept. of Public Health Branch	Jackson	4	1	3
State Dept. of Public Health Branch	Johnson City	6	2	4
State Dept. of Public Health Branch	Knoxville	2	..	2
State Dept. of Public Health Branch	Memphis	3	2	1
Commercial Laboratories				
S - W Laboratory	Knoxville	1	1	..
H and W Commercial Laboratory	Memphis	2	2	..
Industry Laboratories				
Mayfield Dairy Farms, Inc.	Athens	2	..	2
Southeast Milk Sales Assoc., Inc.	Bristol	4	4	..
Turner's Dairy	Covington	2	2	..
Pet Milk Co., Dairy Division	Kingsport	1	1	..
Knoxville Milk Producers Assoc., Inc.	Knoxville	3	3	..
Pet Milk Co., Dairy Division	Knoxville	1	1	..
Dean Foods Co., Inc.	Memphis	2	1	1
Mid South Milk Producers Assoc.	Memphis	3	3	..
Jersey Farms Milk Service, Inc.	Nashville	2	2	..
Nashville Milk Producers, Inc.	Nashville	3	2	1
Purity Dairies, Inc.	Nashville	2	2	..
Sealtest Foods, Milk Division	Nashville	1	..	1
Happy Valley Farms	Rossville, Ga.	2	2	..
TEXAS				
Official Laboratories				
City-County Health Dept.	Abilene	3	1	2
Bi City-County Health Dept.	Amarillo	5	1	4
City-County Health Dept.	Brownwood	1	1	..
City-County Health Dept.	Bryan	1	..	1
City-County Health Dept.	Corpus Christi	4	1	3
Public Health Dept.	Dallas	7	4+1	2
City-County Health Dept.	El Paso	1	1	..
Health Dept.	Fort Worth	4	..	4
City-County Health Dept.	Greenville	1	1	..
Health Dept.	Houston	3	2	1
Galveston County Health Dept.	La Marque	2	1	1
City-County Health Dept.	Laredo	2	1	1
City-County Health Dept.	Lubbock	2	1	1
Midland-Ector-Howard County Health Dept.	Midland	1	1	..
City-County Health Dept.	Paris	1	..	1
Health Dept.	Port Arthur	2	2	..
City-County Health Dept.	San Angelo	1	1	..

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
TEXAS (Continued)				
Metropolitan Health District	San Antonio	7	4	3
Cameron County Health Dept.	San Benito	3	1	2
City-County Health Dept.	Sweetwater	1	..	1
City-County Health Dept.	Texarkana	2	1	1
City-County Health Dept.	Tyler	3	2	1
City-County Health Dept.	Waco	3	1	2
City-County Health Dept.	Wichita Falls	3	2	1
UTAH				
Official Laboratories				
Health Dept.	Logan	1	..	1
Health Dept.	Ogden	2	2	..
Board of Health	Salt Lake City	2	2	..
Commercial Laboratories				
Brigham Young University	Provo	1	1	..
Ford Chemical Laboratory	Salt Lake City	1	1	..
VERMONT				
Official Laboratories				
Granite City Coop. Creamery	Barre	1	1	..
Whiting Milk Company	Bradford	4	3	1
Cabot Farmers Coop. Creamery	Cabot	2	1	1
Vermont Milk & Cream Co. (Borden)	Fair Haven	2	1	1
United Farmers of New England, Inc.	Morrisville	4	..	4
St. Albans Cooperative Creamery	St. Albans	2	2	..
H. P. Hood & Sons	St. Johnsbury	4	..	4
VIRGINIA				
Official Laboratories				
State Dept. of Health District	Abingdon	2	1	1
Health Dept.	Alexandria	1	1	..
Arlington County Health Dept.	Arlington	3	..	3
State Dept. of Agriculture Region	Harrisonburg	2	1	1
State Dept. of Agriculture Region	Ivor	2	1	1
State Dept. of Health District	Luray	3	3	..
Health Dept.	Lynchburg	2	..	2
State Dept. of Agriculture Region	Lynchburg	2	2	..
Health Dept.	Newport News	1	1	..
Health Dept.	Norfolk	2	2	..
Health Dept.	Petersburg	2	1	1
Health Dept.	Portsmouth	3	1	2
Health Dept.	Richmond	1	..	1
Health Dept.	Roanoke	3	..	3
State Dept. of Agriculture Region	Warrenton	1	1	..
State Dept. of Agriculture Region	Wytheville	2	..	2

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
WASHINGTON				
Official Laboratories				
Whatcom-Bellingham Health District	Bellingham	1	1	..
Kitsap-Bremerton Health District	Bremerton	1	1	..
Whitman County Health Dept.	Colfax	1	1	..
Snohomish Health District	Everett	1	1	..
Cowlitz-Wahkiakum Health District	Kelso	1	..	1
Benton-Franklin Health District	Pasco	1	1	..
Olympic Health District	Port Angeles	1	..	1
Seattle-King County Health Dept.	Seattle	2	..	2
City Health Dept.	Spokane	1	1	..
Tacoma-Pierce County Health Dept.	Tacoma	1	1	..
Clark-Skamania Health District	Vancouver	1	..	1
County-City Health Dept.	Walla Walla	1	1	..
Chelan-Douglas Health District	Wenatchee	1	..	1
Yakima County Health District	Yakima	1	1	..
Commercial Laboratories				
Universal Laboratories	Seattle	2	1	1
Technical Consulting Service	Tacoma	1	1	..
Industry Laboratories				
Safeway Stores, Inc.	Bellevue	1	1	..
Darigold	Burlington	1	1	..
Lewis-Pacific Dairymen's Assoc.	Chehalis	3	3	..
Darigold	Ellensburg	1	..	1
Whatcom County Dairymen's Assoc.	Lynden	4	4	..
Arden Farms Company	Moses Lake	2	2	..
Arden Farms Company	Seattle	2	2	..
Carnation Company	Seattle	2	1	1
Consolidated Dairy Products Company	Seattle	6	4	2
Foremost Dairies, Inc.	Seattle	1	1	..
Carnation Company	Spokane	1	1	..
Inland Empire Dairymen's Assoc.	Spokane	2	2	..
Carnation Company	Sunnyside	2	2	..
Foremost Dairies, Inc.	Tacoma	1	1	..
Early Dawn Dairy	Veradale	1	..	1
Central Washington Dairymen's Assoc.	Yakima	1	1	..
Yakima City Creamery, Inc.	Yakima	1	1	..
WEST VIRGINIA				
Official Laboratories				
Raleigh County Health Dept.	Beckley	1	..	1
Mercer County Health Dept.	Bluefield	2	..	2
Kanawha-Charleston Health Dept.	Charleston	1	1	..
Harrison-Clarksburg Health Dept.	Clarksburg	1	1	..
Cabell-Huntington Health Dept.	Huntington	1	..	1
Wood-Parkersburg Health Dept.	Parkersburg	1	1	..

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
WEST VIRGINIA (Continued)				
Brooke County Health Dept.	Wellsburg	1	..	1
Wheeling-Ohio Health Dept.	Wheeling	1	1	..
Industry Laboratories				
Greenbrier Dairy Co.	Beckley	1	..	1
Valley Bell Dairy Co.	Charleston	2	1	1
Foremost Dairies Co.	Welch	2	1	1
WISCONSIN				
Official Laboratories				
Health Dept.	Appleton	1	1	..
Health Dept.	Ashland	1	1	..
Department of Health	Beloit	1	1	..
Health Dept.	Clintonville	1	1	..
City-County Health Dept.	Eau Claire	2	..	2
Inter-City Milk Council	Elkhorn	1	..	1
Public Health	Fond du Lac	1	..	1
Health Dept.	Green Bay	2	1	1
Health Dept.	Janesville	1	..	1
Health Dept.	Kenosha	2	1	1
Public Health	LaCrosse	2	..	2
Health Dept.	Madison	1	1	..
State Dairy & Food Control	Madison	2	2	..
Health Dept.	Milwaukee	3	1	2
City Health	Oshkosh	1	1	..
Health Dept.	Racine	1	1	..
Health Dept.	Sheboygan	2	..	2
Health Dept.	Superior	1	1	..
County Health Dept.	Waukesha	1	..	1
City-County Public Health	Wausau	1	1	..
Commercial Laboratories				
Dairyland Laboratory	Arcadia	1	1	..
Commercial Dairy Laboratory	Colfax	1	1	..
Marshall Dairy Lab., Testing Division	Madison	1	1	..
Wisconsin Alumni Research Foundation	Madison	1	1	..
Dairilab Service	Manitowoc	1	1	..
Milwaukee Food Laboratories	Milwaukee	1	1	..
Industry Laboratories				
Rochester Dairy Co-op.—Alma Division	Alma	1	..	1
Antigo Milk Products Cooperative	Antigo	2	1	1
Columbus Milk Producers Cooperative	Astico	1	1	..
Consolidated Badger Cooperative	Appleton	1	1	..
Twin City Milk Prod. Assn.	Baldwin	1	..	1
Barron Cooperative Creamery	Barron	1	1	..
Central Wisconsin Milk Cont. Co.	Beaver Dam	1	1	..
Pet Milk Company	Belleville	1	1	..

TABLE 4 (Continued) LABORATORIES, LOCATIONS, AND PERSONNEL

	Location	Total	Men	Women
WISCONSIN (Continued)				
Outagamie Producers Coop.	Black Creek	1	..	1
Chippewa County Cooperative Dairy	Bloomer	2	2	..
Burlington Coop. Puremilk Assoc.	Burlington	1	1	..
Sanna Dairies, Inc.	Cameron	1	..	1
Farmers Cooperative Creamery	Clear Lake	1	..	1
Lake-to-Lake Dairy Coop.	Denmark	1	1	..
Baker Laboratory, Inc.	East Troy	1	..	1
Ellsworth Cooperative Creamery	Ellsworth	1	1	..
Galloway West Company	Fond du Lac	2	1	1
Gehl's Guernsey Farms	Germantown	1	1	..
Fairmont Foods Company	Green Bay	2	1	1
Falls Dairy Company	Jim Falls	2	..	2
Dairyland Division—Pure Milk Assoc.	Juneau	1	..	1
Pure Milk Assoc.	Kansasville	1	1	..
Flambeau Valley Farm Cooperative	Ladysmith	1	..	1
Frigo Cheese Corp.	Lena	2	..	2
Consolidated Badger Cooperative	Medford	1	1	..
Sanna Dairies	Menomonie	1	..	1
Blochowiak Dairy Co.	Milwaukee	1	1	..
Borden Company	Milwaukee	2	1	1
Golden Guernsey Dairy Cooperative	Milwaukee	1	1	..
Sealtest Foods Div.—Natl. Dairy Prod. Corp.	Milwaukee	1	1	..
Borden Foods Co.	New London	2	2	..
Pabst Farms, Inc.	Oconomowoc	1	1	..
Hillpoint Cooperative Dairies	Reedsburg	1	1	..
Lassig Dairy, Inc.	Rhinelander	1	..	1
Rice Lake Creamery Company	Rice Lake	1	1	..
Wisconsin Dairies Cooperative	Sauk City	1	1	..
Consolidated Badger Cooperative	Seymour	1	1	..
Consolidated Badger Cooperative	Shawano	1	1	..
Verifine Dairy Products Corp.	Sheboygan	1	1	..
Hiawatha Valley Dairies Cooperative	Sparta	1	..	1
Twin Ports Cooperative Dairy	Superior	1	1	..
Turtle Lake Cooperative Creamery Assoc.	Turtle Lake	1	1	..
Wisconsin Cooperative Creamery Assoc.	Union Center	1	..	1
Golden Guernsey Dairy Cooperative	Waukesha	1	1	..
Alto Cooperative Creamery	Waupun	1	..	1
Consolidated Badger Cooperative	West De Pere	1	..	1
Quality Controlled Dairies Cooperative	Westby	1	..	1
Weyauwega Milk Products, Inc.	Weyauwega	1	1	..
Hawthorn-Mellody Farms	Whitewater	1	1	..
WYOMING				
Industry Laboratories				
Morning Star Dairy	Riverton	1	1	..
Star Valley Swiss Cheese Company	Thayne	1	..	1